

$$D_{50}=0.00594 V_a^{3/2} (d_{avg}^{1/2} K_1^{3/2})$$

D_{50} = Median riprap size (m)

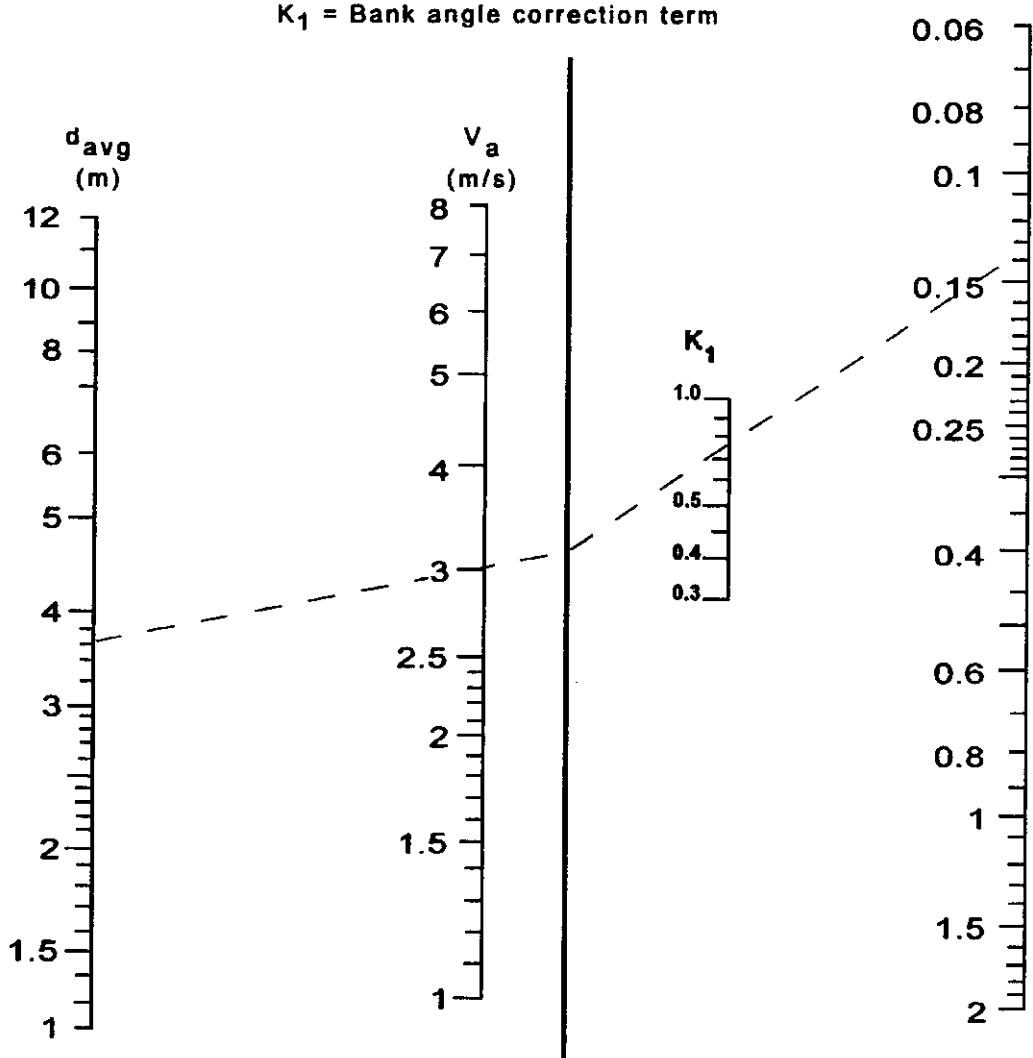
V_a = Average velocity in main channel (m/s)

D_{50}

d_{avg} = Average depth in main channel (m)

(m)

K_1 = Bank angle correction term



Example

Given:

$V_a=3$ m/s

$d_{avg}=3.6$ m

$K_1=0.73$

Find:

D_{50}

Solution:

$D_{50}=0.13$ m

CHANNEL GEOMETRY DEVELOPMENT

(Example 2)

Figure 38-6T